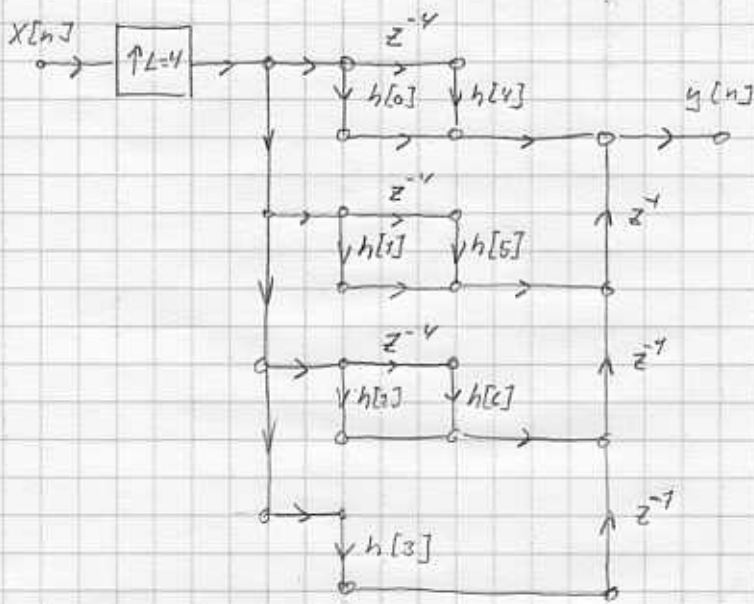


i. sig2 - loes - oev 21

a)

$$\begin{aligned}
 H(z) &= h[0] + h[1]z^{-1} + h[2]z^{-2} + h[3]z^{-3} + h[4]z^{-4} + h[5]z^{-5} + h[6]z^{-6} \\
 &= \underline{h[0] + h[4]z^{-4}} \\
 &\quad + \underline{(h[1] + h[5]z^{-4})z^{-1}} \\
 &\quad + \underline{(h[2] + h[6]z^{-4})z^{-2}} \\
 &\quad + \underline{(h[3])z^{-3}} \\
 &= E_0(z^4) + E_1(z^4)z^{-1} + E_2(z^4)z^{-2} + E_3(z^4)z^{-3}
 \end{aligned}$$

b)



c)

